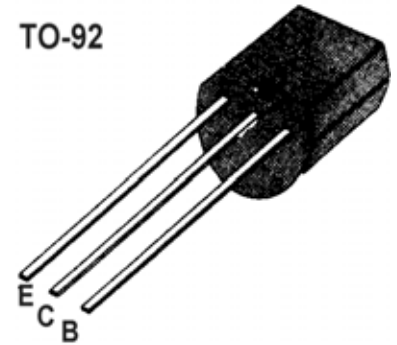


■■ APPLICATION: Audio power amplifier, High current application.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CBO}	-30	V
Collector-emitter voltage	V_{CEO}	-30	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_C	-2	A
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C


■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h_{FE}	100		320		$V_{CE} = -2V, I_C = -500mA$
Collector Cut-off Current	I_{CBO}			-0.1	μA	$V_{CB} = -30V, I_E = 0$
Emitter Cut-off Current	I_{EBO}			-0.1	μA	$V_{EB} = -5V, I_C = 0$
Collector-Base Breakdown Voltage	BV_{CBO}	-30			V	$I_C = -0.1mA, I_E = 0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-30			V	$I_C = -10mA, I_B = 0$
Emitter-Base Breakdown Voltage	BV_{EBO}	-5			V	$I_E = -1mA, I_C = 0$
Base-Emitter on Voltage	$V_{BE(ON)}$			-1	V	$V_{CE} = -2V, I_C = -500mA$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.8	V	$I_C = -2A, I_B = -200mA$
Gain bandwidth product	f_T	100	170		MHZ	$I_C = -50mA, V_{CE} = -5V$
Common Base Output Capacitance	C_{ob}		48		pF	$V_{CB} = -10V, I_E = 0, f = 1MHz$

■■ h_{FE} Classification

Classification	O	Y
h_{FE}	100~200	160~320